



U.S. Department of the Interior • Bureau of Mines

MINERAL INDUSTRY SURVEYS

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Second Quarter 1993.

CRUSHED STONE AND SAND AND GRAVEL IN THE SECOND QUARTER OF 1993.

An estimated 560 million short tons (508 million metric tons) of *aggregates* were produced and shipped for consumption in the United States in the second quarter of 1993, based on information reported to the U.S. Bureau of Mines quarterly sample survey by the *crushed stone* and *sand and gravel* producers. This total represents an increase of 6% compared with the second quarter of 1992.

The estimated output of *crushed stone* produced for consumption in the second quarter of 1993 was 332 million short tons (301 Mmt), an increase of 8.4% compared with the same period of 1992. The estimated output of *construction sand and gravel* produced for consumption in the second quarter of 1993 was 229 million short tons (207 Mmt), an increase of 2.7% compared with the same period of 1992.

The above estimates represent the third highest production level for *crushed stone*, and the fourth highest production level for *sand and gravel* since 1988, the year when the U.S. Bureau of Mines started collecting production information by quarters. The increases in the production of *crushed stone* and *sand and gravel* in the second quarter of 1993, are due mostly to funding for highway construction work provided by the new Intermodal Surface Transportation Efficiency Act, as well as some State highway projects.

The decline in the production of *aggregates* in the

West North Central region was due to some extent to the floods in the Mississippi and Missouri basin. It is expected that the floods will continue to have an impact on the production of aggregates in this area in the third quarter as well.

Complying with the provisions of the Metric Conversion Act of 1975 and the Omnibus Trade and Competitiveness Act of 1988 (Public Law 100-418), the Quarterly Mineral Industry Survey of Crushed Stone and Sand and Gravel, the U.S. Bureau of Mines is publishing its statistical information on aggregates in English as well as metric units. Initially, the dual units system will be applied to the totals only, with increased emphasis on metric units in successive years.

The quarterly survey is a sample survey that generates production estimates by quarters for each State, except Alaska and Hawaii, and each geographic region, based on information reported voluntarily by a limited number of producing companies. Occasionally, the number of companies reporting in an area varies from quarter to quarter, or previously reported data by some companies are revised. As a result of such changes in the size or the composition of the statistical sample, the estimated quantities for prior quarters are recalculated. The latest release of the Quarterly Mineral Industry Survey contains the most recent estimated totals and percentage changes and supersedes previously published similar information.

TABLE 1
AGGREGATES SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY REGION
(Thousand short tons and thousand dollars)

Region	1992					1993						
	Quantity				Value total	Quantity	Per-	Quantity	Per-	Percent	Number	
	2nd Qtr.	3rd Qtr.	4th Qtr.	Total ¹		1st Qtr.	cent change ²	2nd Qtr.	cent change ²	cover- age	of comp. ³	
Northeast:												
New England.....	16,600	20,700	16,400	58,500	313,500	4,800	0.6	16,600	-0.4	34	30	
Middle Atlantic.....	49,700	62,300	44,400	175,600	946,200	19,800	3.1	53,400	7.4	59	59	
Midwest:												
East North Central.....	108,100	129,800	107,600	388,100	1,438,700	44,800	4.9	110,400	2.2	60	81	
West North Central.....	64,700	72,000	51,100	221,900	779,900	29,100	-14.9	60,700	-6.2	43	74	
South:												
South Atlantic.....	84,000	91,900	80,500	317,900	1,608,300	68,900	12.0	100,400	19.5	75	83	
East South Central.....	46,900	51,200	45,300	175,700	817,500	31,800	-1.3	49,800	6.1	65	39	
West South Central.....	48,500	57,100	47,300	194,700	723,700	43,100	3.3	57,300	18.2	54	37	
West:												
Mountain.....	51,900	53,900	42,900	179,200	659,000	35,900	17.7	55,200	6.4	41	48	
Pacific ⁴	58,300	61,000	50,600	211,500	964,400	41,000	-1.6	56,700	-2.7	46	42	
Total ¹	528,700	599,900	486,100	⁵ 1,970,600	⁶ 8,521,500	319,100	3.5	560,400	6.0	XX	XX	
Total ^{6 7}	479,600	544,200	441,000	1,787,700	\$8,521,500	289,500	3.5	508,400	6.0	XX	XX	

XX Not applicable.

¹ Data may not add to totals shown because of independent rounding, and differences between projected totals by states and by regions.

² All percentage changes are calculated using unrounded totals.

³ Number of companies reporting for the quarterly survey.

⁴ Does not include Alaska and Hawaii.

⁵ Includes Alaska, Hawaii, and "Other" totals; see Table 5, footnote 4.

⁶ One metric ton is equal to 1,000 kilograms or 2,204.62 pounds. To convert short tons into metric tons, multiply short tons by 0.907185.

⁷ Total shown in thousand metric tons and thousand dollars.

TABLE 2
CRUSHED STONE SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY REGION
(Thousand short tons and thousand dollars)

Region	1992					1993						
	Quantity				Value total	Quantity	Per-	Quantity	Per-	Percent	Number	
	2nd Qtr.	3rd Qtr.	4th Qtr.	Total ¹		1st Qtr.	cent change ²	2nd Qtr.	cent change ²	cover- age	of comp. ³	
Northeast:												
New England.....	7,000	8,800	6,900	23,900	175,800	1,200	-2.9	7,600	9.4	53	17	
Middle Atlantic.....	35,200	44,300	32,300	125,500	718,900	14,300	4.1	38,600	9.8	67	42	
Midwest:												
East North Central.....	64,300	75,000	62,900	228,300	910,100	27,500	5.0	66,100	2.8	64	49	
West North Central.....	35,400	40,200	29,400	128,000	530,700	20,200	-11.7	35,700	0.9	57	46	
South:												
South Atlantic.....	67,000	73,600	64,100	252,200	1,356,800	54,800	15.3	80,800	20.7	80	56	
East South Central.....	36,300	39,400	35,300	136,600	680,900	24,400	-4.5	37,500	3.3	71	21	
West South Central.....	30,600	36,300	31,000	124,000	477,300	28,200	7.8	34,100	11.3	62	29	
West:												
Mountain.....	10,800	12,300	8,600	37,700	175,500	8,700	46.5	11,700	8.0	51	26	
Pacific ⁴	19,600	19,300	17,100	71,100	336,400	14,500	-4.3	19,700	0.7	33	26	
Total ¹	306,100	349,200	287,600	⁵ 1,161,500	⁶ 5,593,700	193,900	5.1	331,800	8.4	XX	XX	
Total ^{6 7}	277,700	316,800	260,900	1,053,700	\$5,593,700	175,900	5.1	301,000	8.4	XX	XX	

XX Not applicable.

¹ Data may not add to totals shown because of independent rounding, and differences between projected totals by states and by regions.

² All percentage changes are calculated using unrounded totals.

³ Number of companies reporting for the quarterly survey.

⁴ Does not include Alaska and Hawaii.

⁵ Includes Alaska, Hawaii, and "Other" totals; see Table 5, footnote 4.

⁶ One metric ton is equal to 1,000 kilograms or 2,204.62 pounds. To convert short tons into metric tons, multiply short tons by 0.907185.

⁷ Total shown in thousand metric tons and thousand dollars.

TABLE 3
SAND AND GRAVEL SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY REGION
 (Thousand short tons and thousand dollars)

Region	1992					1993					
	Quantity				Value total	Quantity	Per-	Quantity	Per-	Percent	Number
	2nd Qtr.	3rd Qtr.	4th Qtr.	Total ¹		1st Qtr.	cent change ²	2nd Qtr.	cent change ²	cover- age	of comp. ³
Northeast:											
New England.....	9,600	12,000	9,500	34,600	137,700	3,600	1.9	8,900	-7.5	21	25
Middle Atlantic.....	14,500	18,000	12,200	50,100	227,300	5,400	0.7	14,800	1.4	38	32
Midwest:											
East North Central.....	43,800	54,800	44,700	159,800	528,600	17,200	4.8	44,300	1.3	53	52
West North Central.....	29,200	31,800	21,600	93,900	249,200	8,800	-21.5	24,900	-14.8	25	44
South:											
South Atlantic.....	17,000	18,300	16,400	65,700	251,500	14,100	0.6	19,500	14.7	53	46
East South Central.....	10,600	11,700	10,000	39,100	136,600	7,400	10.9	12,300	15.5	47	22
West South Central.....	17,900	20,800	16,300	70,700	246,400	14,900	-4.2	23,300	30.0	41	17
West:											
Mountain.....	41,100	41,600	34,300	141,500	483,500	27,100	10.7	43,600	6.0	38	32
Pacific ⁴	38,700	41,700	33,500	140,400	628,000	26,600	0.0	37,000	-4.4	52	27
Total ¹.....	222,600	250,600	198,600	509,100	529,278,000	125,200	1.0	228,600	2.7	XX	XX
Total ^{6 7}.....	201,900	227,300	180,200	734,000	\$2,927,800	113,600	1.0	207,400	2.7	XX	XX

XX Not applicable.

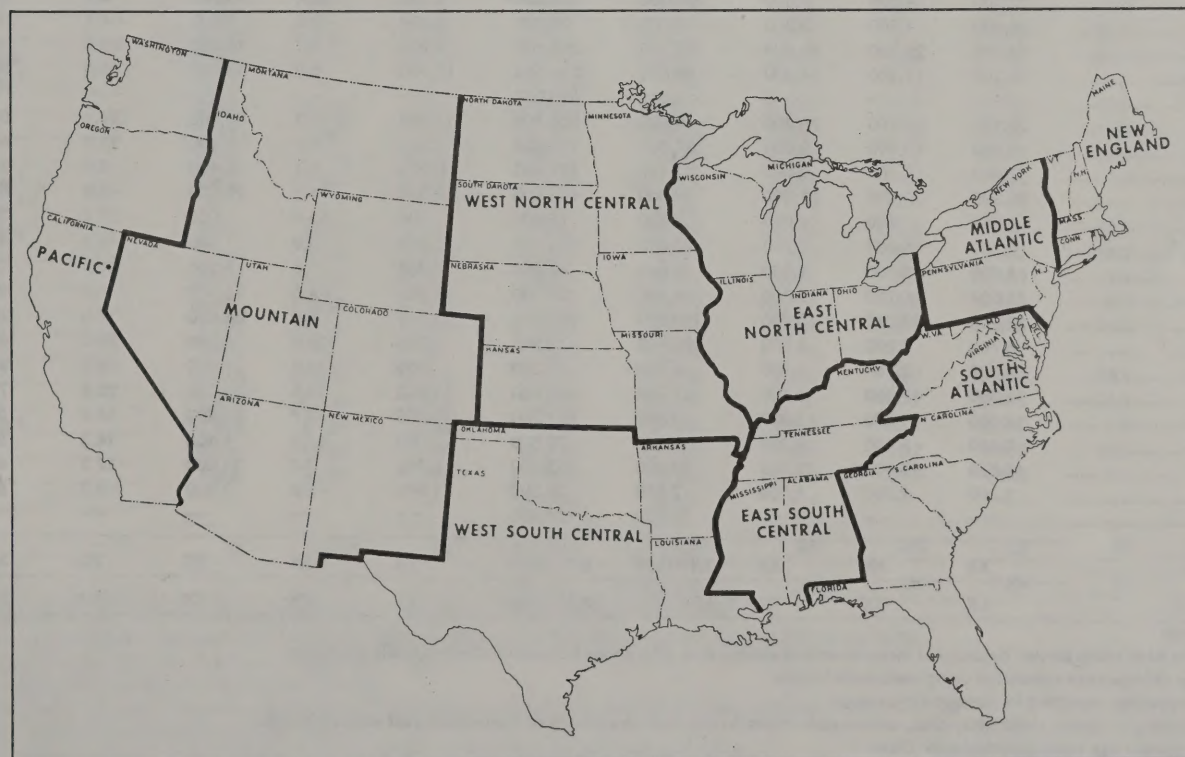
¹ Data may not add to totals shown because of independent rounding, and differences between projected totals by states and by regions.² All percentage changes are calculated using unrounded totals.³ Number of companies reporting for the quarterly survey.⁴ Does not include Alaska and Hawaii.⁵ Includes Alaska and Hawaii.⁶ One metric ton is equal to 1,000 kilograms or 2,204.62 pounds. To convert short tons into metric tons, multiply short tons by 0.907185.⁷ Total shown in thousand metric tons and thousand dollars.

Fig. 1 - U.S. Bureau of Mines - Bureau of the Census geographic regions.

TABLE 4
AGGREGATES SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY STATE
(Thousand short tons and thousand dollars)

State	1992					1993					
	Quantity				Value total	Quantity	Per- cent change ²	Quantity	Per- cent change ²	Percent cover- age	Number of comp. ³
	2nd Qtr.	3rd Qtr.	4th Qtr.	Total ¹		1st Qtr.		2nd Qtr.			
Alabama ⁴	11,300	11,000	9,900	40,900	220,700	8,400	-3.0	11,300	2.3	82	18
Alaska ⁵	--	--	--	16,000	50,600	--	--	--	--	--	--
Arizona	9,100	8,500	7,600	32,000	121,700	7,300	7.1	9,400	3.2	71	10
Arkansas ⁴	7,900	9,800	9,100	33,200	149,500	7,300	14.9	9,600	19.3	50	9
California	36,900	37,300	30,400	129,900	634,900	24,700	-2.7	34,400	-8.2	54	23
Colorado ⁴	15,700	17,800	12,800	53,000	200,200	9,100	35.6	17,700	14.2	38	9
Connecticut ⁴	3,500	4,300	3,500	12,300	84,500	900	-9.1	3,500	-9.1	38	9
Delaware ⁶	1,100	1,700	1,600	5,000	16,300	800	25.4	2,000	82.5	43	5
Florida	18,900	18,500	18,900	74,900	318,100	21,500	15.8	22,700	19.6	61	13
Georgia	13,400	14,500	12,300	48,700	259,000	11,100	28.8	15,600	17.9	94	16
Hawaii ⁵	--	--	--	10,800	95,300	--	--	--	--	--	--
Idaho	3,800	5,000	5,700	17,600	56,600	2,100	-32.4	4,400	14.2	25	6
Illinois ⁴	28,400	33,300	26,900	100,800	421,400	11,000	-9.6	28,900	1.8	58	17
Indiana ⁴	16,500	21,000	16,900	63,200	246,700	9,400	6.6	17,800	6.8	72	24
Iowa	17,100	17,300	11,900	54,700	240,800	6,100	-28.2	16,400	-0.7	40	10
Kansas ⁴	7,300	7,800	6,500	26,500	92,200	4,800	-2.2	8,000	8.2	61	19
Kentucky ⁴	17,100	20,000	18,700	68,300	285,300	11,700	-5.3	18,300	6.5	60	14
Louisiana ⁶	3,700	3,500	3,100	13,300	49,900	2,900	-4.2	4,000	7.5	46	5
Maine	1,600	2,300	2,100	6,400	28,800	400	-12.0	1,400	-4.2	40	4
Maryland	9,600	10,500	8,800	34,600	242,100	5,400	-5.6	10,700	12.5	71	16
Massachusetts	6,300	8,400	6,600	23,300	128,500	2,300	12.5	7,300	26.1	30	8
Michigan	24,600	27,000	23,900	80,900	252,800	6,400	17.9	23,300	-6.2	61	18
Minnesota	12,600	15,000	9,100	40,000	111,800	3,800	14.8	9,200	-21.5	38	15
Mississippi	2,800	3,600	3,200	11,700	41,700	3,000	42.0	4,200	50.1	46	7
Missouri	16,500	18,500	14,500	61,200	212,300	10,200	-12.6	15,400	-6.6	48	23
Montana	3,000	3,900	2,500	10,100	29,200	1,000	17.4	2,600	-18.8	9	4
Nebraska	5,500	5,700	3,600	17,600	61,400	1,800	-36.1	5,800	6.1	47	12
Nevada	6,500	6,300	5,700	22,500	80,600	5,300	32.9	6,700	3.2	48	8
New Hampshire	2,500	2,500	1,900	7,600	31,800	700	-4.9	1,900	-23.8	40	5
New Jersey	7,900	9,300	8,300	29,000	182,400	4,300	19.2	8,500	8.7	64	11
New Mexico	4,800	4,600	3,300	16,100	66,500	3,000	-9.6	4,600	-4.1	30	6
New York	14,700	22,200	14,800	57,100	296,100	5,900	9.7	18,900	26.5	54	20
North Carolina	15,100	17,300	14,300	58,000	296,300	12,100	6.9	18,500	19.4	85	12
North Dakota ⁵	--	--	--	5,310	613,000	--	--	--	--	--	--
Ohio	22,100	30,700	26,400	89,900	354,300	12,200	14.1	25,400	15.1	60	22
Oklahoma ⁴	8,800	10,800	9,600	37,600	130,900	7,900	-5.8	9,800	13.5	66	16
Oregon ⁴	7,900	9,100	9,500	32,100	137,800	6,000	9.1	8,400	5.6	31	13
Pennsylvania ⁴	26,900	30,900	21,300	89,500	467,700	10,000	-4.0	26,600	-0.8	60	33
Rhode Island ⁴	700	900	1,000	2,800	15,600	500	65.3	900	37.7	34	3
South Carolina ⁴	6,500	6,800	6,200	24,900	105,100	5,800	6.9	7,900	26.1	88	12
South Dakota	4,600	6,100	4,600	16,600	48,400	1,300	-1.8	5,100	14.4	27	6
Tennessee	15,600	16,700	13,700	54,800	269,800	8,300	-4.8	15,600	0.9	63	11
Texas	28,200	33,100	25,700	110,600	393,400	25,200	6.9	34,900	17.9	53	17
Utah	5,700	8,200	4,500	20,400	73,900	4,300	108.9	6,500	20.4	25	6
Vermont	1,700	2,700	1,300	6,100	24,300	300	-13.0	1,600	-2.9	26	4
Virginia	15,300	17,100	15,400	57,700	300,900	11,000	10.0	18,700	22.5	70	21
Washington	12,500	14,700	11,600	49,500	191,700	10,300	-3.7	13,800	14.5	36	10
West Virginia ⁴	3,600	5,100	3,300	14,100	70,500	2,000	-3.2	4,100	14.3	56	9
Wisconsin	16,500	18,000	13,500	53,300	163,500	5,700	7.2	14,600	-12.3	45	18
Wyoming	2,300	2,200	1,500	7,500	30,300	1,500	-2.2	2,600	-3.9	62	7
Other ⁵	--	--	--	20,700	124,400	--	--	--	--	--	--
Total	XX	XX	XX	1,970,600	8,521,500	XX	XX	XX	XX	XX	XX
Total ^{7 8}	XX	XX	XX	1,787,700	\$8,521,500	XX	XX	XX	XX	XX	XX

XX Not applicable.

¹ Data may not add to totals shown because of independent rounding, and differences between projected totals by states.

² All percentage changes are calculated using unrounded totals.

³ Number of companies reporting for the quarterly survey.

⁴ To avoid disclosing company proprietary data, certain state totals do not include all kinds of stone produced within the state; the portion not shown has been included with "Other."

⁵ Due to a low number of reporting companies, no production estimates by quarters were generated.

⁶ Includes sand and gravel only.

⁷ One metric ton is equal to 1,000 kilograms or 2,204.62 pounds. To convert short tons into metric tons, multiply short tons by 0.907185.

⁸ Total shown in thousand metric tons and thousand dollars.

TABLE 5
CRUSHED STONE SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY STATE
(Thousand short tons and thousand dollars)

State	1992					1993					
	Quantity				Value total	Quantity	Per- cent	Quantity	Per- cent	Percent	Number
	2nd Qtr.	3rd Qtr.	4th Qtr.	Total ¹		1st Qtr.	change ²	2nd Qtr.	change ²	cover- age	of comp. ³
Alabama ⁴	7,700	7,600	7,100	28,600	175,600	6,000	-3.1	8,100	5.0	98	13
Alaska ⁵	--	--	--	3,000	13,400	--	--	--	--	--	--
Arizona.....	1,300	1,400	1,400	5,500	26,300	1,900	33.4	1,400	9.7	25	4
Arkansas ⁴	6,000	7,400	7,300	25,200	118,900	5,800	27.5	7,500	26.4	41	7
California.....	11,200	10,900	10,100	40,800	198,300	8,100	-5.4	11,600	3.6	36	11
Colorado ⁴	3,300	4,200	2,700	12,000	60,400	2,400	35.2	4,000	21.1	57	6
Connecticut ⁴	1,900	2,000	1,700	5,900	54,500	100	-47.0	1,600	-18.8	54	5
Delaware.....	--	--	--	--	--	--	--	--	--	--	--
Florida.....	14,800	14,500	15,200	59,300	266,900	17,500	18.6	18,200	23.1	59	11
Georgia.....	12,100	13,300	11,200	44,000	244,200	10,100	35.8	14,500	20.0	97	8
Hawaii ⁵	--	--	--	10,500	93,500	--	--	--	--	--	--
Idaho ⁵	--	--	--	4,000	19,200	--	--	--	--	--	--
Illinois ⁴	20,100	23,900	19,300	72,700	322,800	8,600	-8.3	20,500	1.8	56	13
Indiana ⁴	10,900	14,300	11,900	43,000	178,000	6,700	12.5	12,400	13.5	68	15
Iowa.....	11,100	11,600	8,300	38,000	186,200	4,700	-33.0	11,300	2.4	50	8
Kansas ⁴	4,600	4,900	4,100	16,900	69,600	3,500	3.2	4,900	7.0	76	12
Kentucky ⁴	14,600	17,000	16,100	58,800	251,100	10,200	-7.7	15,000	2.5	60	9
Louisiana ⁵	--	--	--	W	W	--	--	--	--	--	--
Maine.....	500	700	600	1,900	11,400	200	83.6	500	6.3	80	4
Maryland.....	6,800	7,400	5,900	23,800	180,400	3,500	-5.7	7,800	15.1	81	10
Massachusetts.....	3,000	3,800	3,100	10,400	77,200	400	-18.0	3,900	31.6	54	5
Michigan.....	12,800	12,300	11,100	38,600	125,500	2,400	-2.1	11,600	-9.2	76	10
Minnesota.....	3,000	4,400	2,400	10,500	39,500	600	-19.3	2,900	-4.0	66	6
Mississippi ⁵	--	--	--	2,500	10,400	--	--	--	--	--	--
Missouri.....	14,000	15,500	12,400	52,200	187,400	9,500	-8.7	13,300	-5.1	49	19
Montana.....	800	700	500	2,200	6,200	400	22.8	600	-21.4	34	3
Nebraska.....	1,500	2,100	1,200	5,900	29,100	1,100	1.0	1,600	6.0	96	6
Nevada.....	300	300	300	1,200	6,700	300	6.4	300	3.1	71	3
New Hampshire.....	500	600	500	1,700	11,000	100	-12.3	400	-23.6	67	3
New Jersey.....	4,700	5,300	5,300	17,100	126,000	2,400	29.8	5,200	10.3	81	7
New Mexico.....	900	900	700	3,000	14,400	600	15.4	800	-10.3	38	4
New York.....	9,500	14,600	9,500	36,800	212,700	3,300	0.7	11,900	25.3	72	12
North Carolina.....	12,800	14,700	12,000	48,600	262,400	9,600	5.9	15,100	17.8	96	11
North Dakota ⁵	--	--	--	10	W	--	--	--	--	--	--
Ohio.....	12,400	15,800	14,000	48,500	194,500	7,200	13.8	14,300	15.7	71	12
Oklahoma ⁴	6,200	7,900	7,300	27,500	105,300	6,100	-0.2	7,100	14.6	80	10
Oregon ⁴	4,700	4,500	4,100	16,800	74,900	3,900	12.4	5,100	8.9	32	11
Pennsylvania ⁴	21,200	24,400	17,200	71,600	380,200	8,600	-1.8	21,600	1.7	61	24
Rhode Island ^{4 5}	--	--	--	1,500	9,500	--	--	--	--	--	--
South Carolina ⁴	4,500	4,900	4,500	17,600	83,800	4,300	15.9	5,900	31.1	105	9
South Dakota.....	1,300	1,400	1,200	4,500	18,900	700	20.7	1,600	17.2	67	5
Tennessee.....	13,200	14,400	11,600	46,700	243,800	7,100	-4.8	13,400	1.4	68	7
Texas.....	18,500	21,000	16,600	71,300	253,100	16,300	8.0	19,700	6.7	63	14
Utah.....	1,300	1,700	1,400	5,300	22,400	1,800	118.1	1,800	33.0	47	4
Vermont ⁵	--	--	--	2,500	12,200	--	--	--	--	--	--
Virginia.....	12,700	14,200	12,700	47,500	261,300	8,900	12.7	15,600	23.2	72	17
Washington.....	3,600	4,000	2,800	13,500	63,200	2,400	-23.2	2,700	-25.2	26	3
West Virginia ⁴	2,900	4,100	2,600	11,400	57,800	1,700	-6.5	3,100	7.9	52	6
Wisconsin.....	8,100	8,800	6,200	25,500	89,300	2,800	16.7	6,800	-16.3	51	9
Wyoming.....	1,600	1,400	900	4,500	19,900	900	24.8	1,500	-9.0	93	5
Other ⁵	--	--	--	20,700	124,400	--	--	--	--	--	--
Total.....	XX	XX	XX	1,161,500	5,593,700	XX	XX	XX	XX	XX	XX
Total ^{6 7}	XX	XX	XX	1,053,700	\$5,593,700	XX	XX	XX	XX	XX	XX

XX Not applicable. W Withheld to avoid disclosing company proprietary data; included with "Other."

¹ Data may not add to totals shown because of independent rounding, and differences between projected totals by states.

² All percentage changes are calculated using unrounded totals.

³ Number of companies reporting for the quarterly survey.

⁴ To avoid disclosing company proprietary data, certain state totals do not include all kinds of stone produced within the state; the portion not shown has been included with "Other."

⁵ Due to a low number of reporting companies, no production estimates by quarters were generated.

⁶ One metric ton is equal to 1,000 kilograms or 2,204.62 pounds. To convert short tons into metric tons, multiply short tons by 0.907185.

⁷ Total shown in thousand metric tons and thousand dollars.

TABLE 6
SAND AND GRAVEL SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY STATE
(Thousand short tons and thousand dollars)

State	1992					1993					
	Quantity				Value total	Quantity	Per-	Quantity	Per-	Percent	Number
	2nd Qtr.	3rd Qtr.	4th Qtr.	Total ¹		1st Qtr.	cent change ²	2nd Qtr.	cent change ²	cover- age	of comp. ³
Alabama.....	3,600	3,400	2,800	12,300	45,100	2,400	-3.0	3,300	-9.8	46	9
Alaska ⁴	--	--	--	13,000	37,200	--	--	--	--	--	--
Arizona.....	7,800	7,100	6,200	26,500	95,400	5,500	0.4	8,000	2.9	81	8
Arkansas.....	1,900	2,400	1,800	8,000	30,600	1,500	-16.6	2,100	7.6	78	4
California.....	25,700	26,400	20,300	89,100	436,600	16,500	-1.4	22,800	-11.3	62	13
Colorado.....	12,300	13,600	10,100	41,000	139,800	6,700	35.8	13,700	10.8	32	8
Connecticut.....	1,600	2,300	1,800	6,400	30,000	700	5.7	1,900	18.0	23	6
Delaware.....	1,100	1,700	1,600	5,000	16,300	800	25.4	2,000	82.5	43	5
Florida.....	4,100	4,000	3,700	15,600	51,200	4,000	4.9	4,500	8.5	66	9
Georgia.....	1,300	1,200	1,000	4,700	14,800	1,000	-14.3	1,100	-15.4	59	9
Hawaii ⁴	--	--	--	300	1,800	--	--	--	--	--	--
Idaho.....	2,900	3,400	4,700	13,600	37,400	900	-64.5	3,400	19.2	20	4
Illinois.....	8,300	9,400	7,600	28,100	98,600	2,400	-13.9	8,400	1.8	63	8
Indiana.....	5,600	6,800	5,000	20,200	68,700	2,700	-5.7	5,400	-4.0	80	12
Iowa.....	6,000	5,600	3,600	16,700	54,600	1,400	-5.7	5,000	-16.2	19	7
Kansas.....	2,700	2,900	2,400	9,600	22,600	1,400	-13.6	3,000	13.0	33	8
Kentucky.....	2,500	3,000	2,700	9,500	34,200	1,500	15.1	3,300	30.2	58	5
Louisiana.....	3,700	3,500	3,100	13,300	49,900	2,900	-4.2	4,000	7.5	46	5
Maine.....	1,100	1,600	1,500	4,500	17,400	200	-43.3	900	-19.2	23	4
Maryland.....	2,800	3,100	2,900	10,800	61,700	1,900	-5.3	2,900	2.4	49	8
Massachusetts.....	3,300	4,600	3,500	12,900	51,300	1,800	23.4	3,400	1.7	11	6
Michigan.....	11,800	14,600	12,800	42,300	127,300	4,000	34.2	11,700	-1.2	47	10
Minnesota.....	9,500	10,600	6,700	29,500	72,300	3,200	24.3	6,300	-34.2	28	13
Mississippi.....	2,200	2,900	2,400	9,200	31,300	2,300	33.9	3,300	51.1	48	6
Missouri.....	2,500	3,100	2,100	9,000	24,900	800	-42.4	2,100	-15.4	47	6
Montana ⁴	--	--	--	7,900	23,000	--	--	--	--	--	--
Nebraska.....	4,000	3,600	2,400	11,700	32,300	700	-58.4	4,200	6.2	22	7
Nevada.....	6,200	6,000	5,400	21,300	73,900	5,000	35.0	6,400	3.2	47	5
New Hampshire.....	2,000	1,900	1,400	5,900	20,800	500	-3.3	1,500	-24.0	32	4
New Jersey.....	3,200	4,000	3,000	11,900	56,400	1,800	7.5	3,300	3.9	40	5
New Mexico.....	3,900	3,800	2,600	13,100	52,100	2,400	-14.3	3,800	-2.1	28	3
New York.....	5,300	7,700	5,300	20,300	83,400	2,500	24.1	7,000	33.6	22	11
North Carolina.....	2,300	2,600	2,300	9,400	33,900	2,500	10.7	3,300	48.1	30	4
North Dakota ⁴	--	--	--	5,300	13,000	--	--	--	--	--	--
Ohio.....	9,700	14,900	12,400	41,400	159,800	5,000	14.6	11,100	14.1	48	16
Oklahoma.....	2,600	2,900	2,300	10,100	25,600	1,800	-20.6	2,700	4.8	26	6
Oregon.....	3,200	4,600	5,400	15,300	62,900	2,100	3.4	3,300	0.5	30	4
Pennsylvania.....	5,600	6,500	4,100	17,900	87,500	1,400	-15.4	5,000	-11.4	55	15
Rhode Island ⁴	--	--	--	1,300	6,100	--	--	--	--	--	--
South Carolina.....	2,000	1,900	1,700	7,300	21,300	1,500	-12.6	2,000	0.3	46	6
South Dakota.....	3,300	4,700	3,500	12,100	29,500	500	-21.7	3,500	7.9	12	5
Tennessee.....	2,400	2,400	2,100	8,100	26,000	1,200	-4.9	2,300	-5.7	32	6
Texas.....	9,700	12,100	9,100	39,300	140,300	8,900	4.9	15,100	56.1	35	8
Utah.....	4,500	5,900	3,000	15,100	51,500	(⁴)	(⁴)	(⁴)	(⁴)	--	--
Vermont.....	1,100	1,400	800	3,600	12,100	300	-2.6	900	-15.8	24	4
Virginia.....	2,600	2,900	2,600	10,200	39,600	2,100	-0.2	3,100	18.2	62	7
Washington.....	8,900	10,700	8,800	36,000	128,500	7,900	4.2	11,100	25.1	40	10
West Virginia.....	700	1,000	700	2,700	12,700	400	15.9	1,000	31.5	76	4
Wisconsin.....	8,400	9,200	7,300	27,800	74,200	2,900	-0.6	7,800	-7.4	41	13
Wyoming.....	700	800	700	3,000	10,400	600	-24.9	1,200	66.6	16	3
Total.....	XX	XX	XX	809,100	2,927,800	XX	XX	XX	XX	XX	XX
Total ^{5 6}	XX	XX	XX	734,000	\$2,927,800	XX	XX	XX	XX	XX	XX

XX Not applicable.

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² All percentage changes are calculated using unrounded totals.

³ Number of companies reporting for the quarterly survey.

⁴ Due to a low number of reporting companies, no production estimates by quarters were generated.

⁵ One metric ton is equal to 1,000 kilograms or 2,204.62 pounds. To convert short tons into metric tons, multiply short tons by 0.907185.

⁶ Total shown in thousand metric tons and thousand dollars.

The production estimates for *crushed stone* and *sand and gravel*, are generated independently for each State and geographic region which are treated as separate statistical sample areas. Therefore, some differences may exist between the total for a region and the sum of State totals that are part of the same geographic region.

The East North Central region led the Nation in the production of *aggregates* in the second quarter of 1993 with an estimated 110 million short tons (100 Mmt), or 19.7% of the U.S. total. Next was the South Atlantic region with 100 million short tons (91 Mmt), or 17.9%, followed by the West North Central region with 61 million short tons (55 Mmt), or 10.8% of the U.S. total.

The leading geographic regions in the estimated production of *crushed stone* were the South Atlantic with 81 million short tons (73 Mmt), or 24.4% of the U.S. total, followed by the East North Central with 66 million short tons (60 Mmt), or 19.9%, and the Middle Atlantic region with 39 million short tons (35 Mmt), or 11.6% of the total.

For *construction sand and gravel*, the leading geographic regions were the East North Central region with 44 million short tons (40 Mmt), or 19.4% of the U.S. total, followed by the Mountain with 44 million short tons (40 Mmt), or 19.1%, and the Pacific with 37 million short tons (34 Mmt), or 16.2% of the total. The estimated totals by quarters for the geographic regions do not include Alaska and Hawaii.

The five leading States in the production of *aggregates* in the second quarter of 1993 were

Texas, California, Illinois, Pennsylvania, and Ohio. Their combined total estimated production represented 26.8% of the U.S. total.

The five leading States in the production of *crushed stone* in the second quarter of 1993 were Pennsylvania, Illinois, Texas, Florida, and Virginia. Their combined total estimated production represented 28.8% of the U.S. total.

The five leading States in the production of *sand and gravel* in the second quarter of 1993 were California, Texas, Colorado, Michigan, and Washington. Their combined total estimated production represented 32.5% of the U.S. total.

A total of 405 companies and subsidiaries representing *crushed stone* and *construction sand and gravel* producers in each State reported production information to the second quarter sample survey. The large participation of the producing companies in this survey is reflected by the very good percentage coverage obtained for most geographic regions and states. The percentage coverage indicates how much of the total estimated production for a State or a geographic region was actually reported by companies participating in this survey and was used to generate the estimated totals for that particular area.

The percent changes between the estimated production for the current quarter and the same quarter of the prior year included in this report, are important indicators of the production/consumption trends occurring in a particular area of the country.

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